

PROCEEDINGS
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TWO NEW LEGUMES FROM MEXICO AND COSTA
RICA.

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In the course of a critical study of the genus *Canavalia* it was found necessary to examine also the related genera. The two following plants seem to be undescribed species.

Phaseolus chiapanus, sp. nov.

Herbaceous, climbing, slender-stemmed, the whole plant turning black in drying; stems terete, sparsely pilose with rusty hairs; petioles terete, rusty pilose, longer than the leaflets; stipules oblong-quadrangular, striate, acuminate, glabrous above, pubescent beneath, 1 cm. long; stipels narrowly oblong-lanceolate, striate, curved, pubescent beneath, 3-4 mm. long; petiolules 5-6 mm. long, rusty pubescent; leaflets thin membranaceous, broadly ovate to orbicular, conspicuously acuminate with the tip apiculate, three-nerved from the rounded base, sparsely strigillose above, more so beneath especially on the nerves, 7-10 cm. long; flowers in loose slender bracteate racemes; bracts ovate-lanceolate, acuminate, glabrous above, rusty pubescent beneath, 4-5 mm. long, the lower ones entire, the upper divided to the base into 2 or 3 segments; pedicels slender, pubescent, 5-10 mm. long, each bearing a single bracteole at the base of the calyx; gland at base of pedicel expanded, 2-lobed; calyx campanulate, 8-9 mm. long, rusty pubescent with appressed coarse hairs, the lobes much shorter than the tube, the upper lip notched, shorter than the lower, the lobes obtuse, the lower lip 3-lobed, the lateral ones obtuse, the median longer and acute; corolla about 3 cm. long; standard orbicular, emarginate at apex, reniform at base, short-unguiculate, 2.5 cm. long, 2 cm. broad, rather firm in texture, a linear gland in the middle toward the base; wings as long as the body of the keel, unguiculate, the stalk and middle portion thickish, the terminal third thin and expanded, a short lobe near the middle; keel thickish, semicircularly curved, the narrow beak in two complete coils about 5 mm. broad; stamens diadelphous; ovary linear, rusty pubescent; style bearded on the under side toward the tip; stigma scarcely enlarged, lateral, covered with retrorse papillae.

Finca Mexiquito, Chiapas, Mexico, *C. A. Purpus* 6881, Sept., 1913 (type in the U. S. National Herbarium, sheet No. 567,182).

Calopogonium ferrugineum, n. sp.

Herbaceous?; whole plant more or less densely covered with short appressed ferruginous hairs; stems terete, densely hairy; petioles channelled above, shorter than the leaflets; stipules oblong, acutish and somewhat lacerate, pubescent on both sides, 3 mm. long; stipels narrowly lanceolate; petiolules densely pubescent, 3-4 mm. long; leaflets broadly ovate, the median as broad as long, entire or obscurely 2- or 3-lobed, 3-nerved from the rounded base, acuminate and apiculate, sparsely strigillose above more so on the nerves, densely appressed pubescent beneath, 7-8 cm. long; inflorescence a narrow erect panicle 20-30 cm. long on a stout peduncle nearly as long; branches of the panicle very short, thickened, each bearing 3-5 flowers; flowers deflexed, on slender pedicels about 5 mm. long; calyx campanulate, densely ferruginous, 6 mm. long, the upper lip shorter than the lower and with 2 short acutish teeth, the lower lip with 3 acute teeth, the median longest and nearly as long as the calyx tube; bracteole at base of calyx minute, oblong-lanceolate; corolla purple, 7-8 mm. long; standard orbicular, obliquely nerved, not notched at apex, auricle at base, the auricles inflexed, unguiculate, the claw one-fourth as long as the blade, a linear thickening on each side of a median depression at the base of the blade; wings as long as the keel, spatulate, obtuse, unguiculate, each with a horn-like reflexed auricle at base; keel curved, blunt, the petals slightly united, somewhat gibbous, unguiculate, each blade with a hood-shaped or rarely horn shaped sac at base; ovary linear, densely hairy; style sparsely hairy beneath, coiled once at tip; pods (immature) linear, compressed, recurved at tip, densely ferruginous, not constricted between the seeds, 9 cm. long, 1.5 cm. wide, the stout pedicel 1 cm. long.

Buissons a Las Vueltas, Tucurrique, Costa Rica, A. Tonduz 12889, Dec., 1898, sheet 577,657 in U. S. National Herbarium. Allied to *C. coeruleum* (Benth.) Desv. but readily distinguished by the form of the leaflets, the ferruginous appressed pubescence, the orbicular entire standard, and the much larger not constricted pods. The style in *C. coeruleum* is less hairy and straight.